

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of the existing traffic signal at the intersection of US 50 with Chapel Road in Easton, Maryland. New sidewalks, ADA ramps, and APS/CPS signals will be installed for the west leg of the intersection. Additionally, left turn phasing for US 50 will be changed to exclusive. US 50 is assumed to run in an east-west direction.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 6-phase, semi-actuated mode with exclusive left turn phasing for both US 50 approaches and split phasing for the Chapel Road approaches.

2. The existing full-traffic-actuated, eight-phase controller housed in a NEMA 6 base mounted cabinet shall be utilized at this location.

NOTES

- All pavement markings shall be installed in accordance with Administration standards.
- The contractor shall be responsible for terminating all signal cable to the appropriate terminals and properly labeling each cable.
- All traffic signal foundations shall be installed at the final sidewalk or curb grade for closed sections, highest roadway profile grade for open sections, to meet clearances as specified in the appropriate 800 series Standard Plates. The contractor shall verify ultimate grades prior to the installation of all signal equipment.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.
- The contractor shall maintain the continuous operation of all interconnect, vehicular, pedestrian detectors, and lighting devices. If any device is damaged by the contractor, it shall be repaired within 72 hours by the contractor at no cost to the Administration after notification by the Engineer.
- APS will function as follows:
 - When pedestrian locates and presses the pushbutton for an extended time, the message will be "Wait to cross Ocean Gateway at Chapel. Wait."
 - When Walk phase begins, the message will be a rapid tick which will last for the duration of the Walk phase.
- Pushbutton arrows are to be parallel to the crossing for which they are intended.
- Pedestrian poles shall be installed so as to maintain a minimum 5' clear pedestrian pathway.

CONTACTS

DISTRICT ONE

MR. DONNIE L. DREWER
DISTRICT ENGINEER
410-677-4006

MR. KENNETH CIMINO
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-677-4040

MR. BRUCE C. POOLE
UTILITY ENGINEER
410-677-4082

MR. GREG HOLSEY
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-677-4020

MR. WAYNE WEICHMAN
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-677-4010

OFFICE OF TRAFFIC AND SAFETY

MR. AVIJIT MAJI
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ED RODENHIZER
TEAM LEADER SIGNAL OPERATIONS
410-787-7650

MR. EUGENE BAILEY
TEAM LEADER SIGN OPERATIONS
410-787-7670

MR. MIKE STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7666

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY THE ADMINISTRATION

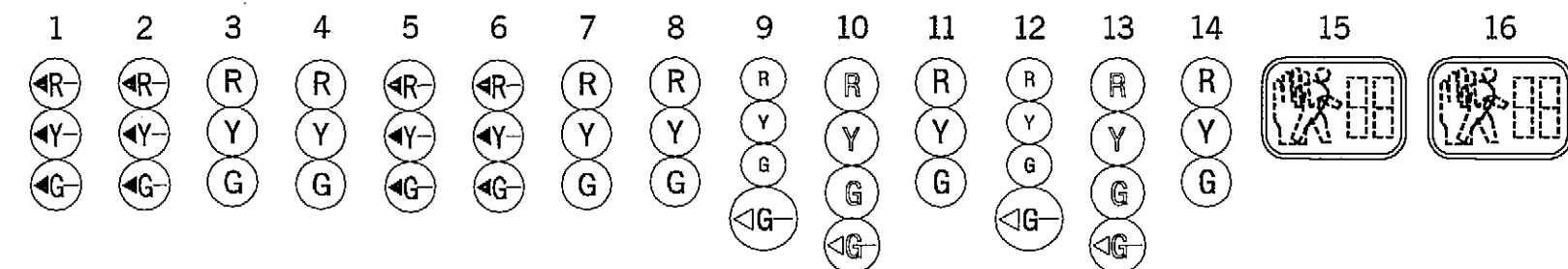
ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9570	SHEET ALUMINUM GROUND MOUNTED SIGNS CONSISTING OF: 1 EA - R4-7 (36" x 48") GROUND MOUNT	SF	12

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2001	CLASS 2 EXCAVATION	CY	14
2002	TEST PIT EXCAVATION	CY	3
5002	5" HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS	LF	60
5003	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS	LF	325
5004	12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES	LF	400
6001	STANDARD TYPE A COMBINATION CURB AND GUTTER	LF	220
6002	5 INCH CONCRETE SIDEWALK	SF	910
6003	DETECTABLE WARNING SURFACE FOR CURB RAMPS	SF	40
8001	12 INCH LED SIGNAL HEAD	EA	18
8002	2-WIRE CENTRAL CONTROL UNIT	EA	1
8008	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	2
8009	BREAKAWAY PEDESTAL POLE (ANY SIZE)	EA	2
8015	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD	EA	2
8023	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)	EA	1
8036	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED	LF	60
8038	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF	40
8039	WOOD SIGN SUPPORTS UP TO 4"x6"	LF	15
8040	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)	SF	12
8042	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	100
8046	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	1
8053	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	500
8055	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	SF	75

C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

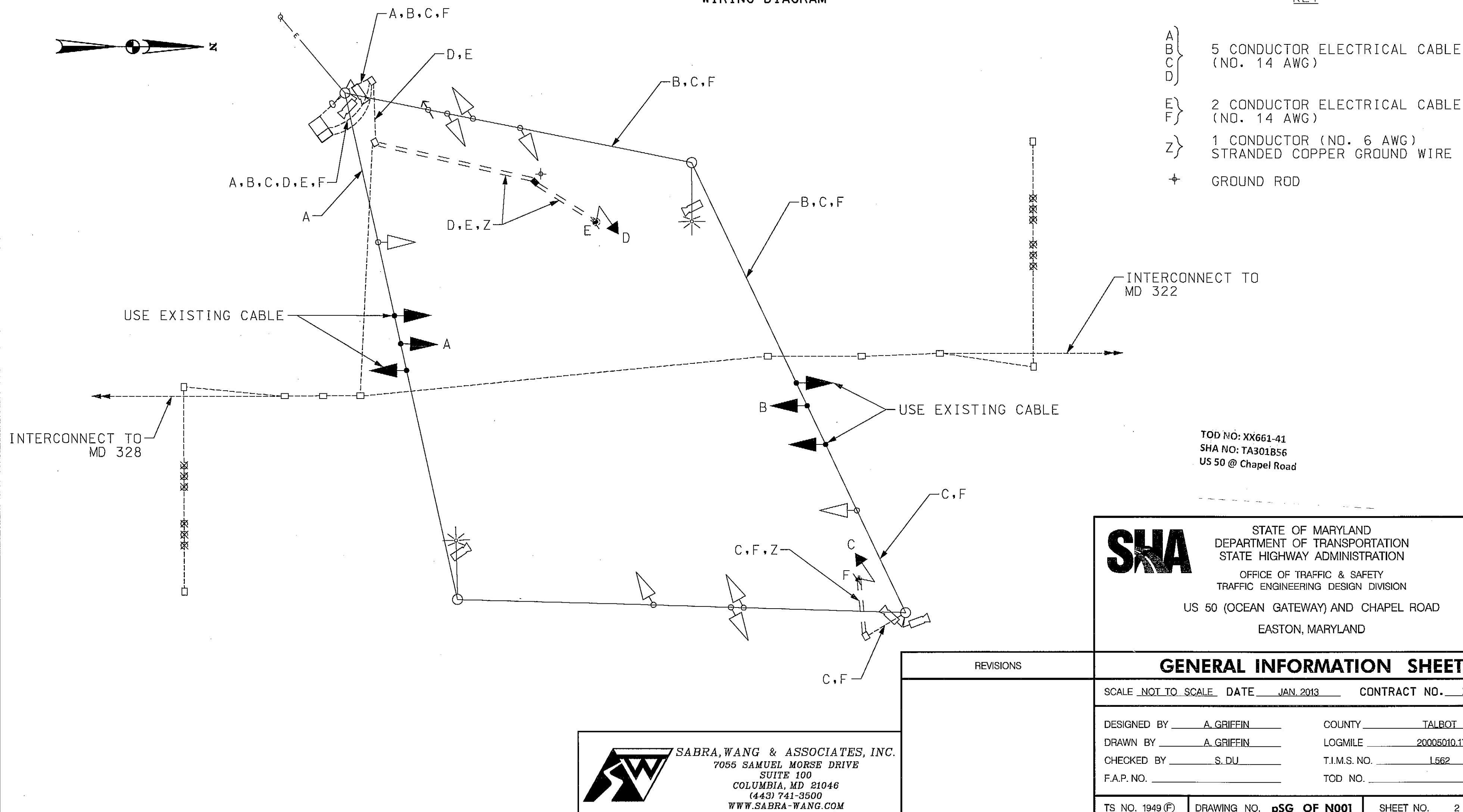
PHASE CHART



PHASE 1 AND 5	←G- ←G- R R ←G- ←G- R R R R R R R R DW DW	
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6		
PHASE 1 AND 6	←G- ←G- G G ←R- ←R- R R R R R R R R DW DW	
1 AND 6 CHANGE	←Y- ←Y- G G ←R- ←R- R R R R R R R R DW DW	
PHASE 2 AND 5	←R- ←R- R R ←G- ←G- G G R R R R R R R R DW DW	
2 AND 5 CHANGE	←R- ←R- R R ←Y- ←Y- G G R R R R R R R R DW DW	
PHASE 2 AND 6	←R- ←R- G G ←R- ←R- G G R R R R R R R R DW DW	
2 AND 6 CHANGE	←R- ←R- Y Y ←R- ←R- Y Y R R R R R R R R DW DW	
PHASE 3	←R- ←R- R R ←R- ←R- R R R R R R G/←G G/←G Y DW DW	
3 CHANGE	←R- ←R- R R ←R- ←R- R R R R R R Y Y Y DW DW	
PHASE 3 ALT	←R- ←R- R R ←R- ←R- R R R R R R G/←G G/←G G WK WK	
PED CLEARANCE & COUNTDOWN	←R- ←R- R R ←R- ←R- R R R R R R G/←G G/←G G FL/DW FL/DW	
3 ALT CHANGE	←R- ←R- R R ←R- ←R- R R R R R R Y Y Y DW DW	
PHASE 4	←R- ←R- R R ←R- ←R- R R G/←G G/←G G R R R R DW DW	
4 CHANGE	←R- ←R- R R ←R- ←R- R R Y Y Y Y R R R R DW DW	
EMERGENCY PRE-EMPTION	←R- ←R- R R ←R- ←R- R R G/←G G/←G G R R R R DW DW	
PRE-EMPTION CHANGE	←R- ←R- R R ←R- ←R- R R Y Y Y Y R R R R DW DW	
FLASHING OPERATION	FL/←R FL/←R FL/Y FL/Y FL/←R FL/←R FL/Y FL/Y FL/R FL/R FL/R FL/R FL/R FL/R DARK DARK	

WIRING DIAGRAM

KEY



TOD NO: XX661-41
SHA NO: TA301B56
US 50 @ Chapel Road

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
US 50 (OCEAN GATEWAY) AND CHAPEL ROAD
EASTON, MARYLAND

GENERAL INFORMATION SHEET

SCALE NOT TO SCALE DATE JAN 2013 CONTRACT NO. XX6615185

DESIGNED BY A. GRIFFIN COUNTY TALBOT
DRAWN BY A. GRIFFIN LOGMILE 20005010.17
CHECKED BY S. DU T.I.M.S. NO. L562
F.A.P. NO. TOD NO.

TS NO. 1949 (F) DRAWING NO. pSG OF N001 SHEET NO. 2 OF 3

PLOTTED: Wednesday, January 16, 2013 AT 05:23 PM
FILE: R:\2008\Y3 SHA BCS 2008-05A_TEDD DESIGN_STV_Y_58M\Task 219 US 50 @ Chapel Road\DWG\pSG-N000_L562.dgn